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frequency
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NEWS 7 Mar 22 TOXLIT no longer available
NEWS 8 Mar 22 TRCTHERMO no longer available
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and USPATFULL
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NEWS 21 Jun 10 PCTFULL has been reloaded
NEWS 22 Jul 02 FOREGE no longer contains STANDARDS file segment

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=> s de 2028328

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=> file wpids

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

FILE 'WPIDS' ENTERED AT 10:45:23 ON 18 JUL 2002
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FILE LAST UPDATED: 17 JUL 2002

<20020717/UP>

MOST RECENT DERWENT UPDATE

200245

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DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> The BATCH option for structure searches has been
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=> s de 2028328

1184031 DE

1 2028328

L1 0 DE 2028328

(DE(W)2028328)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

3.32

3.74

FILE 'CAPLUS' ENTERED AT 10:46:06 ON 18 JUL 2002
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FILE COVERS 1907 - 18 Jul 2002 VOL 137 ISS 3
FILE LAST UPDATED: 17 Jul 2002 (20020717/ED)

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=> s de 2028328/pn
L2 1 DE 2028328/PN
(DE2028328/PN)

=> d all

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 1971:65029 CAPLUS
DN 74:65029
TI Time-regulated gelation of poly(vinyl alcohol) using chromium ions
IN Stafford, Edward P.
PA du Pont de Nemours, E. I., and Co.
SO Ger. Offen., 46 pp.
CODEN: GWXXBX
DT Patent
LA German
IC C08F
CC 36 (Plastics Manufacture and Processing)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2028328		19701210		<--
PRAI	US		19690609		
AB	Gelation of the title compd. (I) is time-regulated by mixing aq. solns. of >85% hydrolyzed I with 1-100 wt. % water-sol. Cr(III) salts (based on I) and water-sol. acid salts at 0.05-9 equiv. salt/equiv. Cr(III) and treating the resulting soln. with sufficient water-sol. alkali to increase the pH to 8 and induce gelation. Thus, an aq. soln. is prepd. contg. >99% hydrolyzed I, 1.94 wt. % Cr(III) (based on I) as CrCl3, and 0.328 equiv. Na2C2O4/equiv. Cr(III). The aq. soln. is treated with 32% NaOH as a 4% aq. soln. to increase the pH to 12.9 and induce gelation in 19 min. Other Cr sources used include Cr2(SO4)3, CrBr3, and Cr(NO3)3 and other acid salts used include NaHCO3, KOAc, and Na citrate. The gelled I are useful as binders for prepg. flooring compns. or may be frothed with air to yield foams.				
ST	foams polyvinyl alc; gelation polyvinyl alc; polyvinyl alc gelation; chromium compds gelation polyols; oxalates gelation polyols; acetates gelation polyols; citrates gelation polyols; binders flooring compns				
IT	Gelation (of vinyl alc. polymers, with chromium salts)				
IT	9002-89-5, uses and miscellaneous RL: USES (Uses) (gelation of, with chromium salts)				
IT	7789-02-8	10060-12-5	13475-99-5	13478-06-3	
	RL: USES (Uses) (gelation with, of vinyl alc. polymers)				
IT	62-76-0	68-04-2	127-08-2	127-09-3	139-33-3 144-55-8, uses and miscellaneous 1310-73-2, uses and miscellaneous
	RL: USES (Uses) (vinyl alc. polymers gelation in presence of)				

TIME CONTROLLED GELATION OF POLYVINYL ALCOHOL WITH CHROMIC ION

Patent Number: ☒ US3591543

Publication date: 1971-07-06

Inventor(s): STAFFORD EDWARD PHILIP

Applicant(s): DU PONT

Requested Patent: ☐ DE2028328

Application Number: USD3591543 19690609

Priority Number(s): US19690831772 19690609

IPC Classification: C08F29/26

EC Classification: C08J9/30, C09K17/48

Equivalents: ☐ BE751691, ☐ FR2050114, ☐ GB1297668, JP48035706B, ☐ NL7008354

Abstract

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